

Replacement Sheet

Attorney Name: John J. Prizzi, Customer No. 27,877, Attorney Phone: 724-539-5331

Title of Invention: ALUMINA COATING, COATED PRODUCT AND METHOD OF MAKING THE SAME, Inventor(s): Gates, Jr. et al., Serial No.: 10/799,827, Docket No.: K-1977

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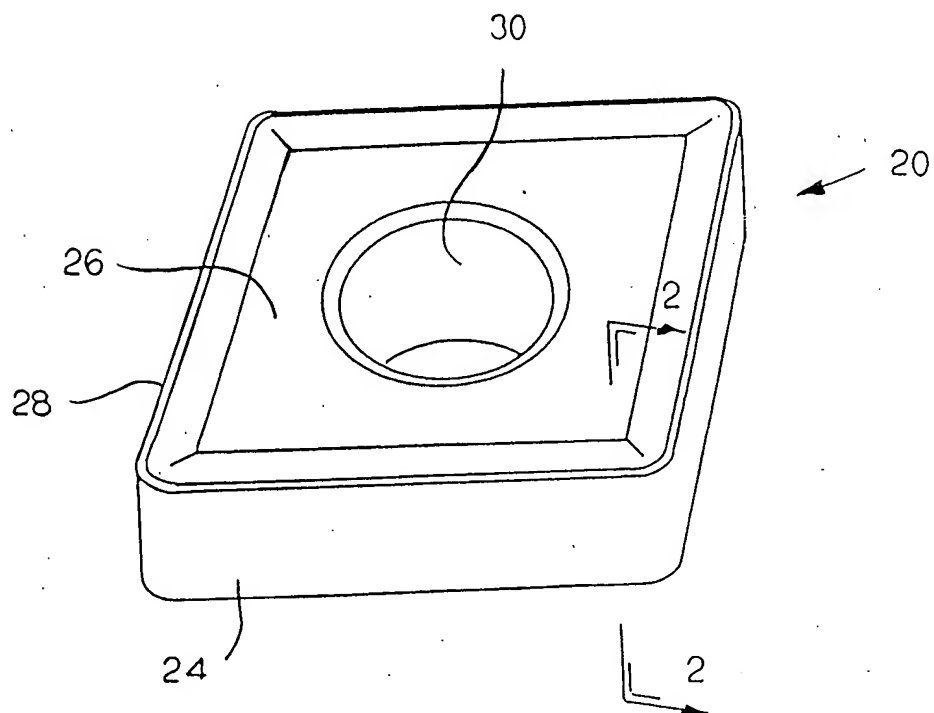


FIG. 1

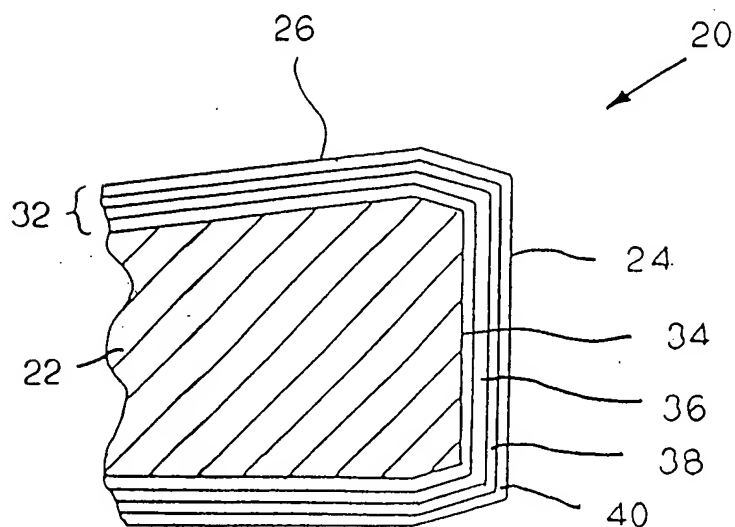
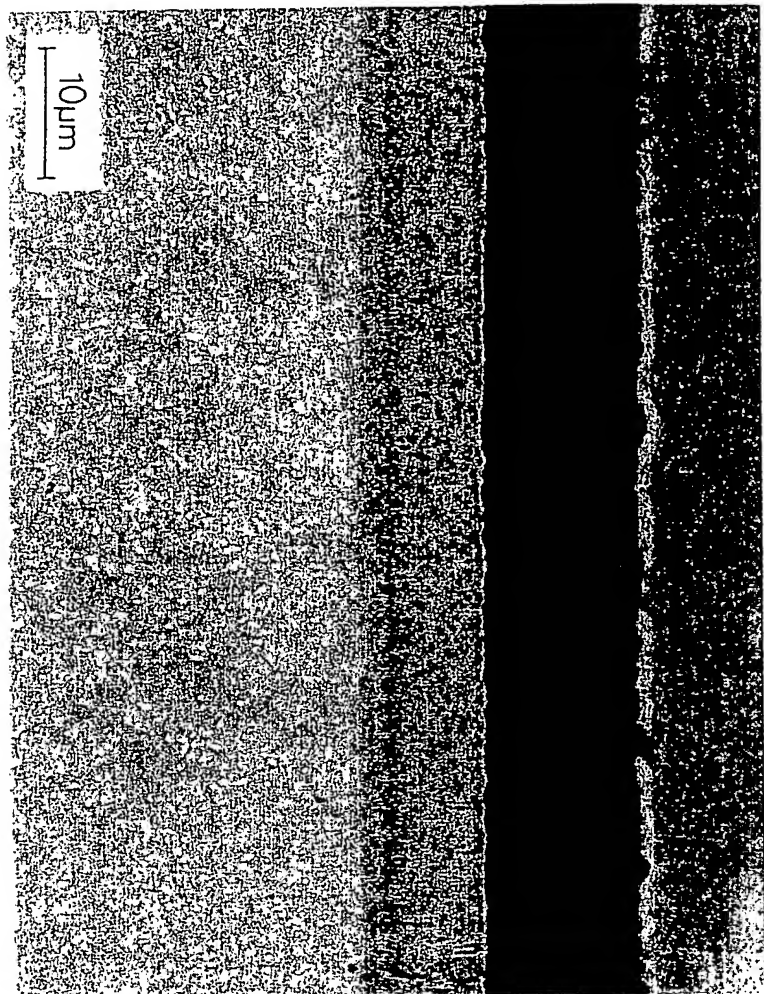


FIG. 2



TiCN/TiN Coating Layer

Alumina Layer

Modification Layer

Titanium
Carbonitride Layer

Titanium
Nitride Layer

FIG. 3

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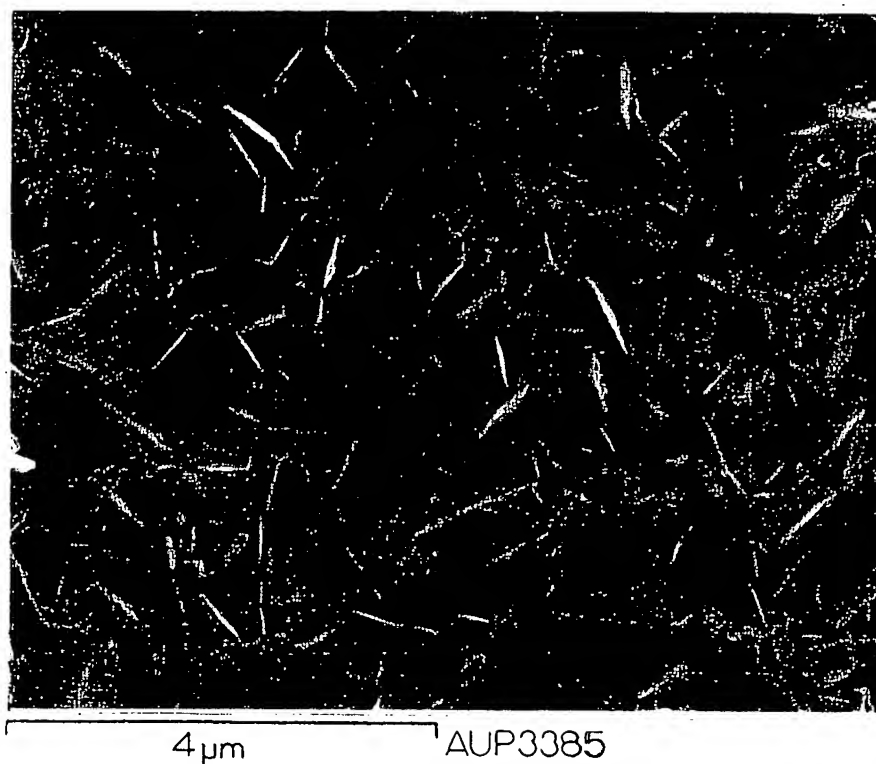
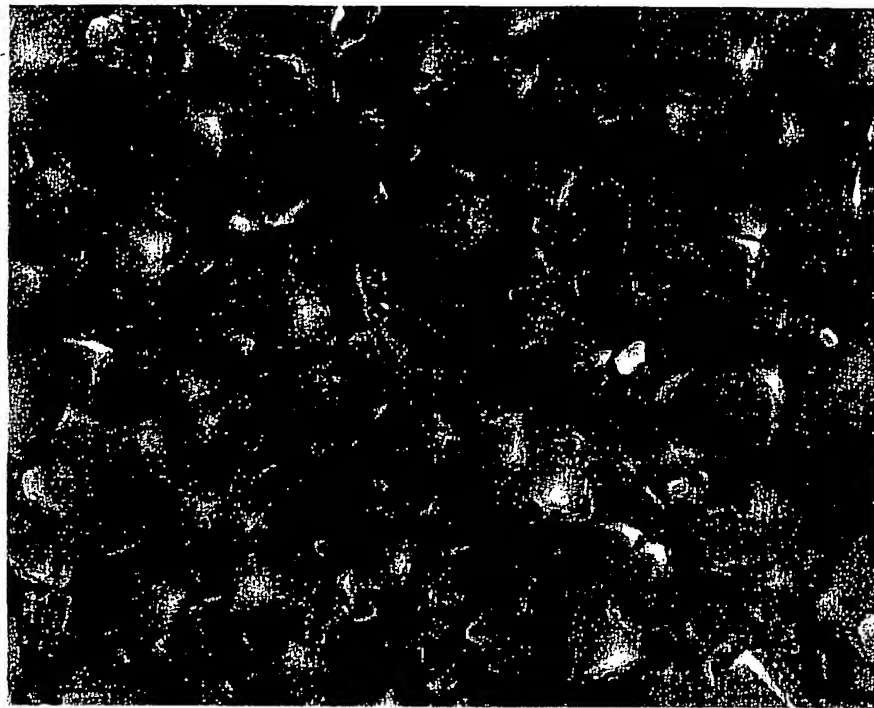


FIG. 4

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4 μ m

AUP3416

FIG. 5

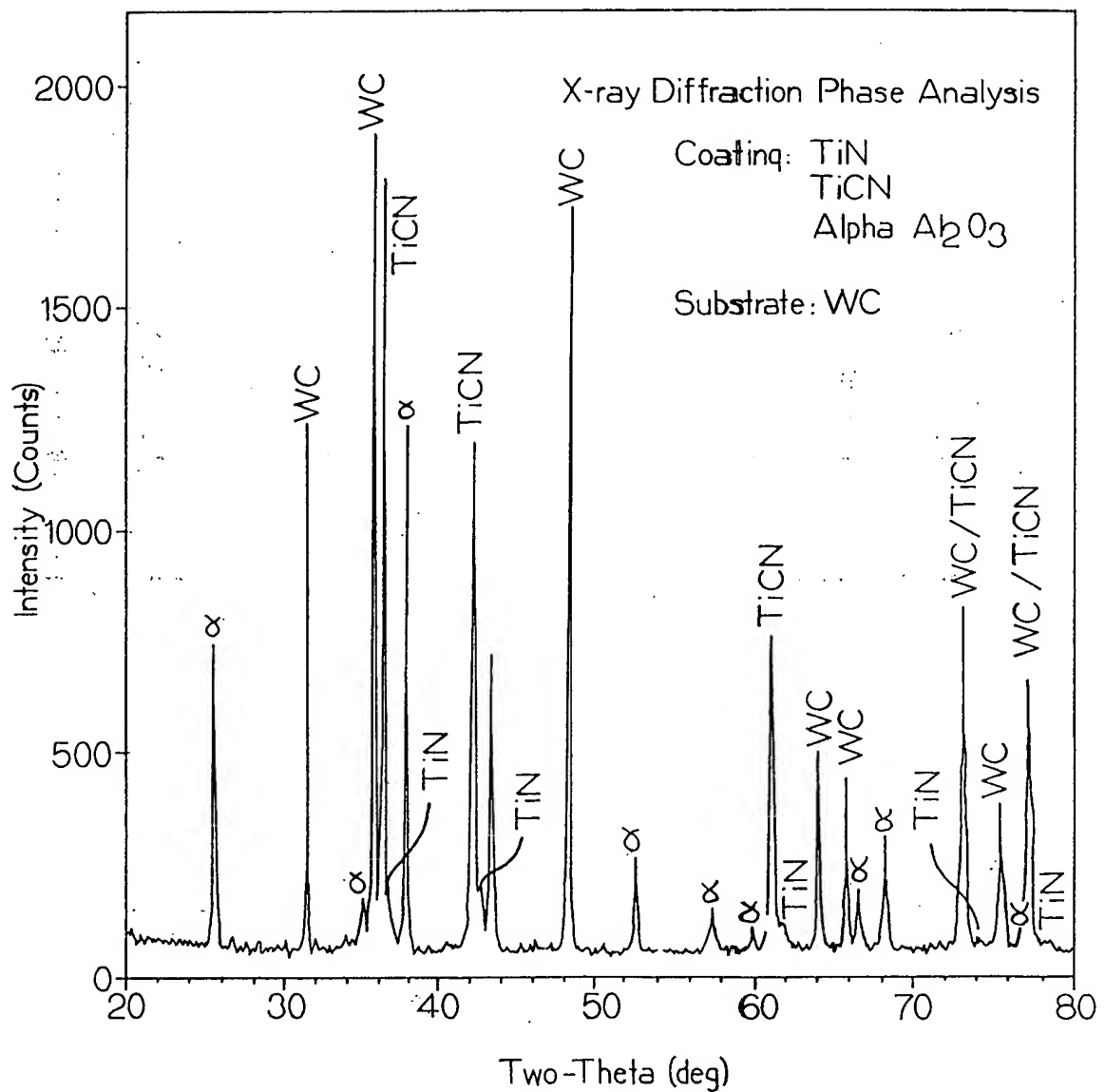
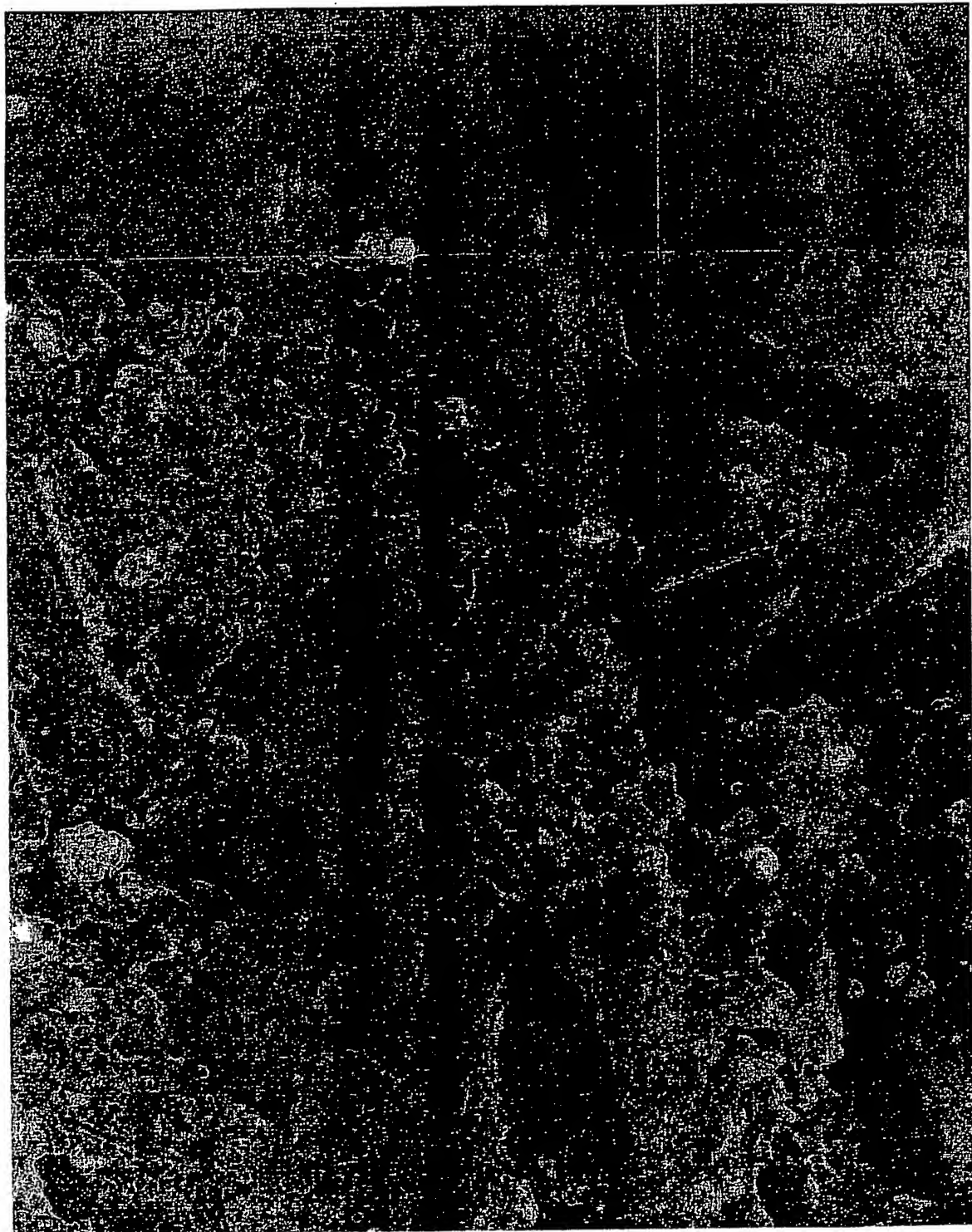
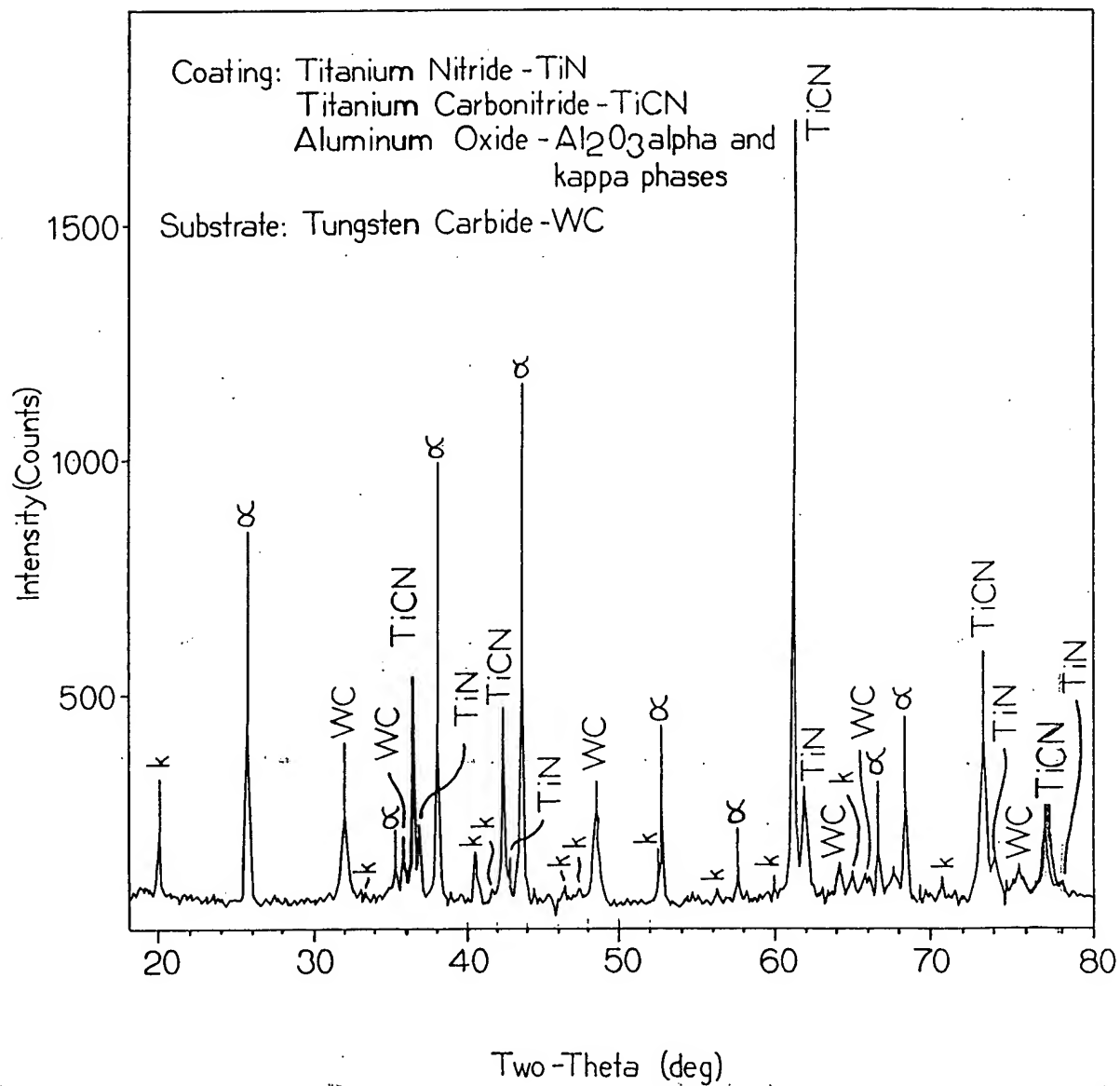


FIG. 6



6 μ m

FIG. 7

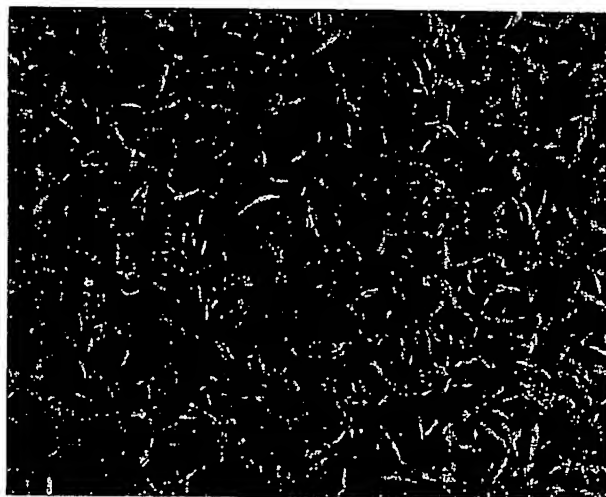


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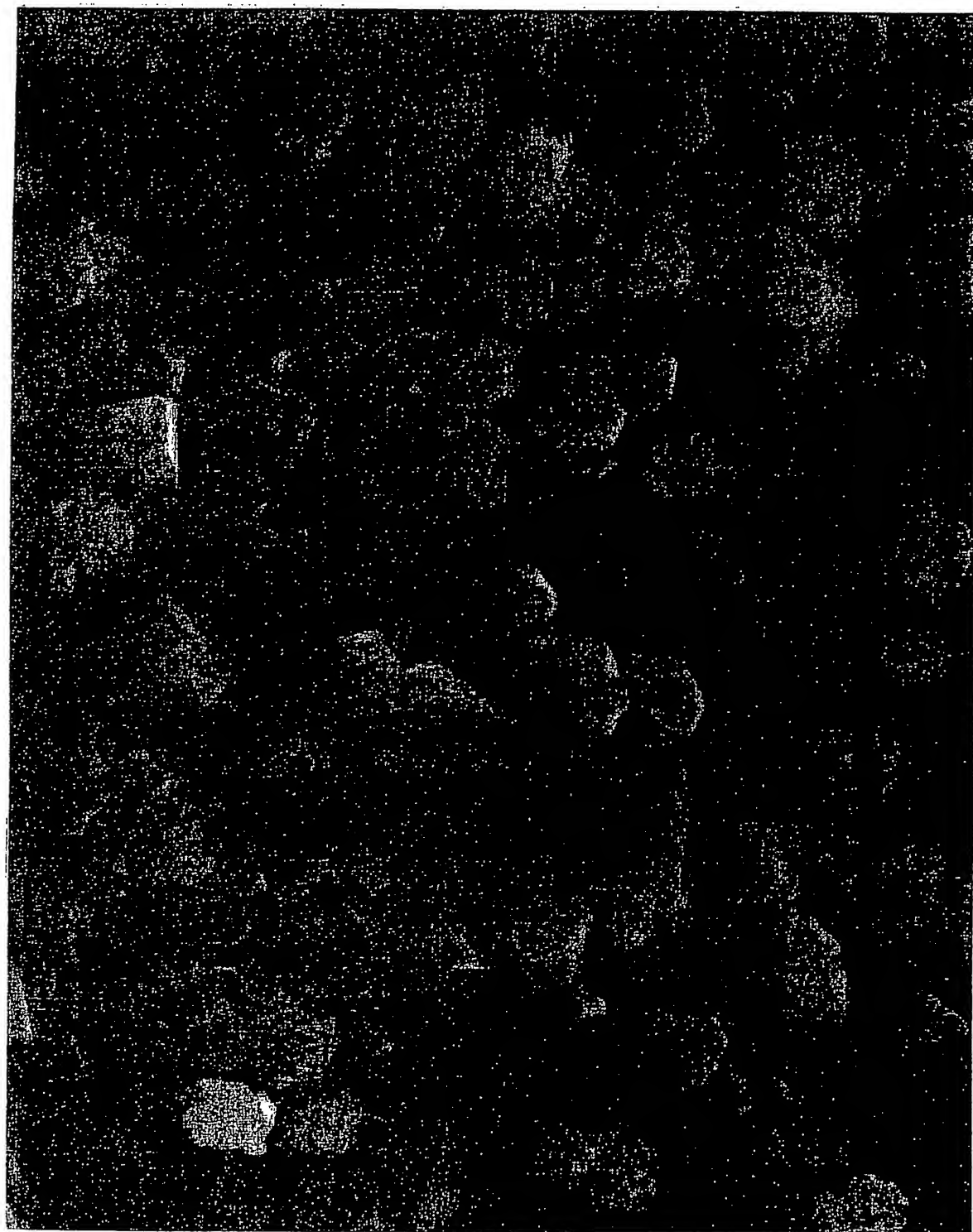


10 μ m

FIG. 9

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6 μ m

FIG. 10

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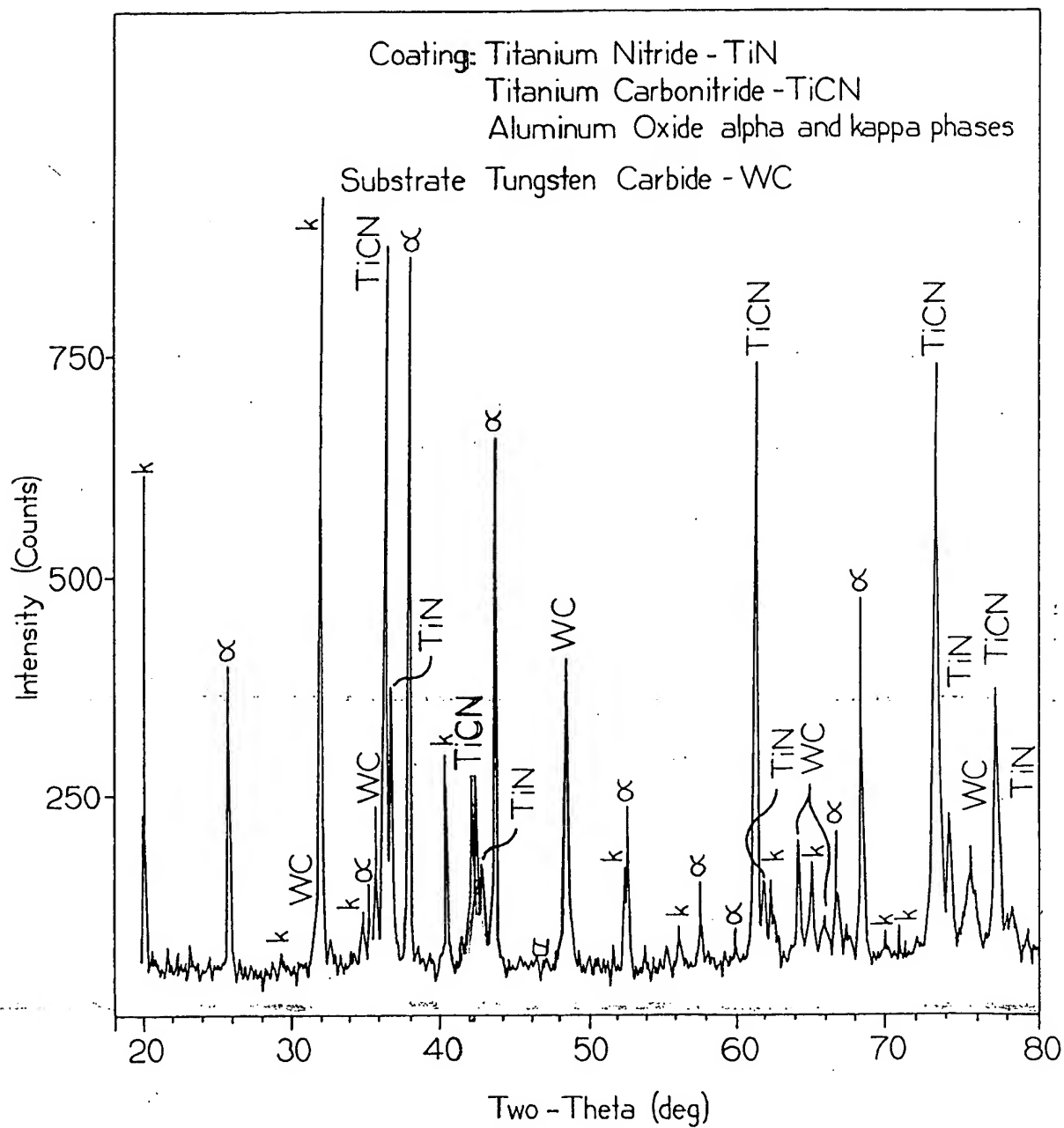


FIG. 11

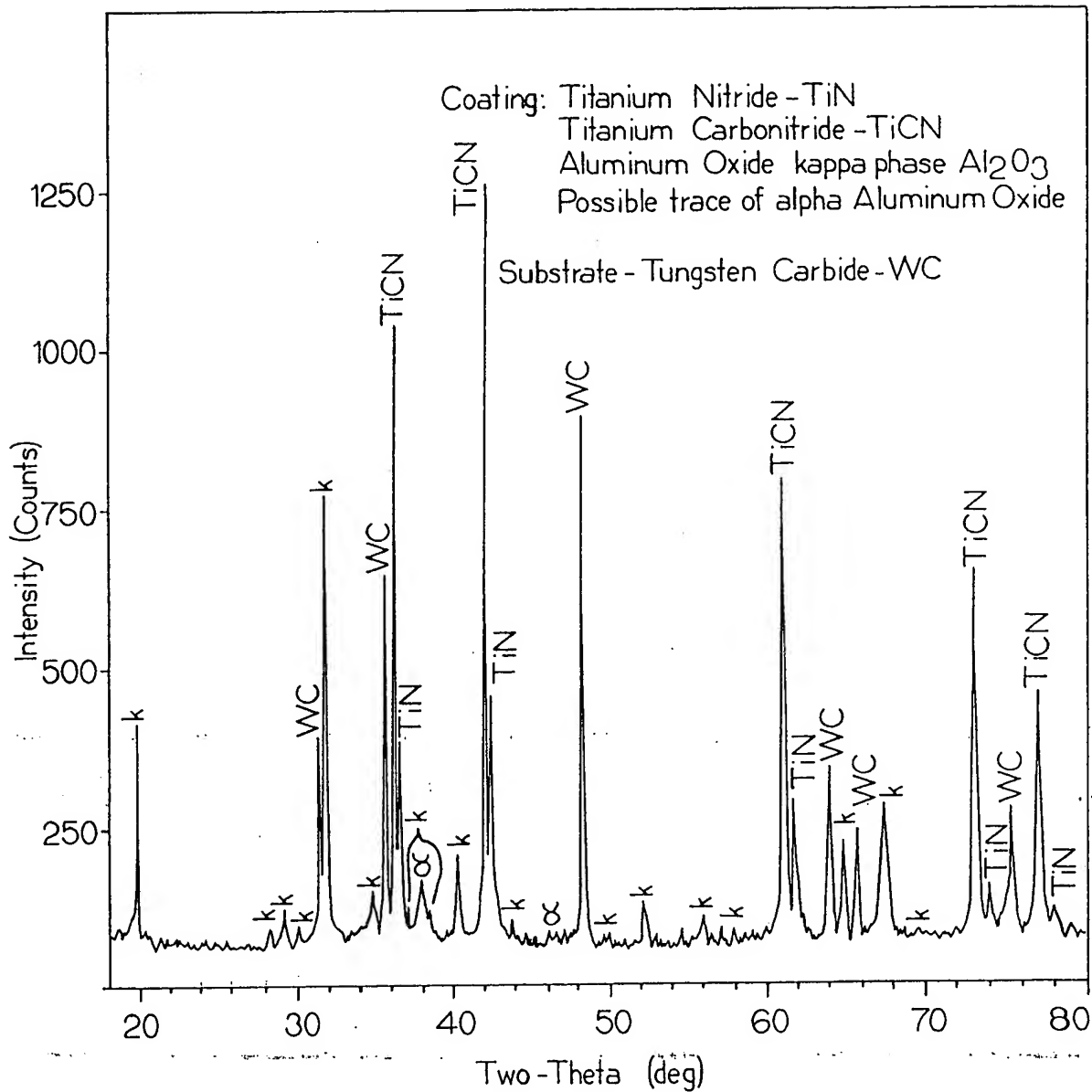
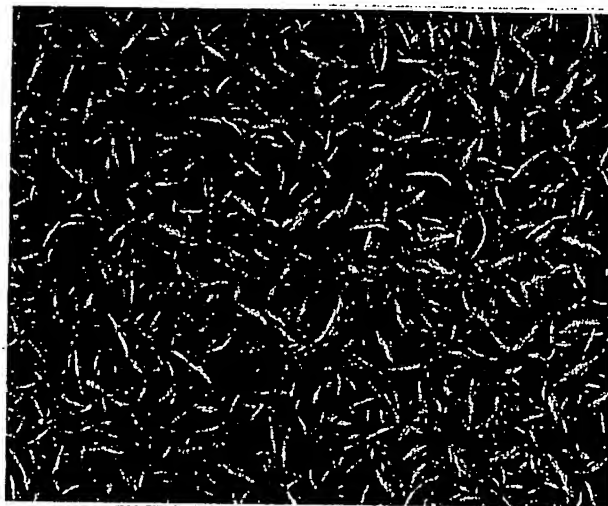


FIG. 12



10μm

FIG. 13



10μm

FIG. 15

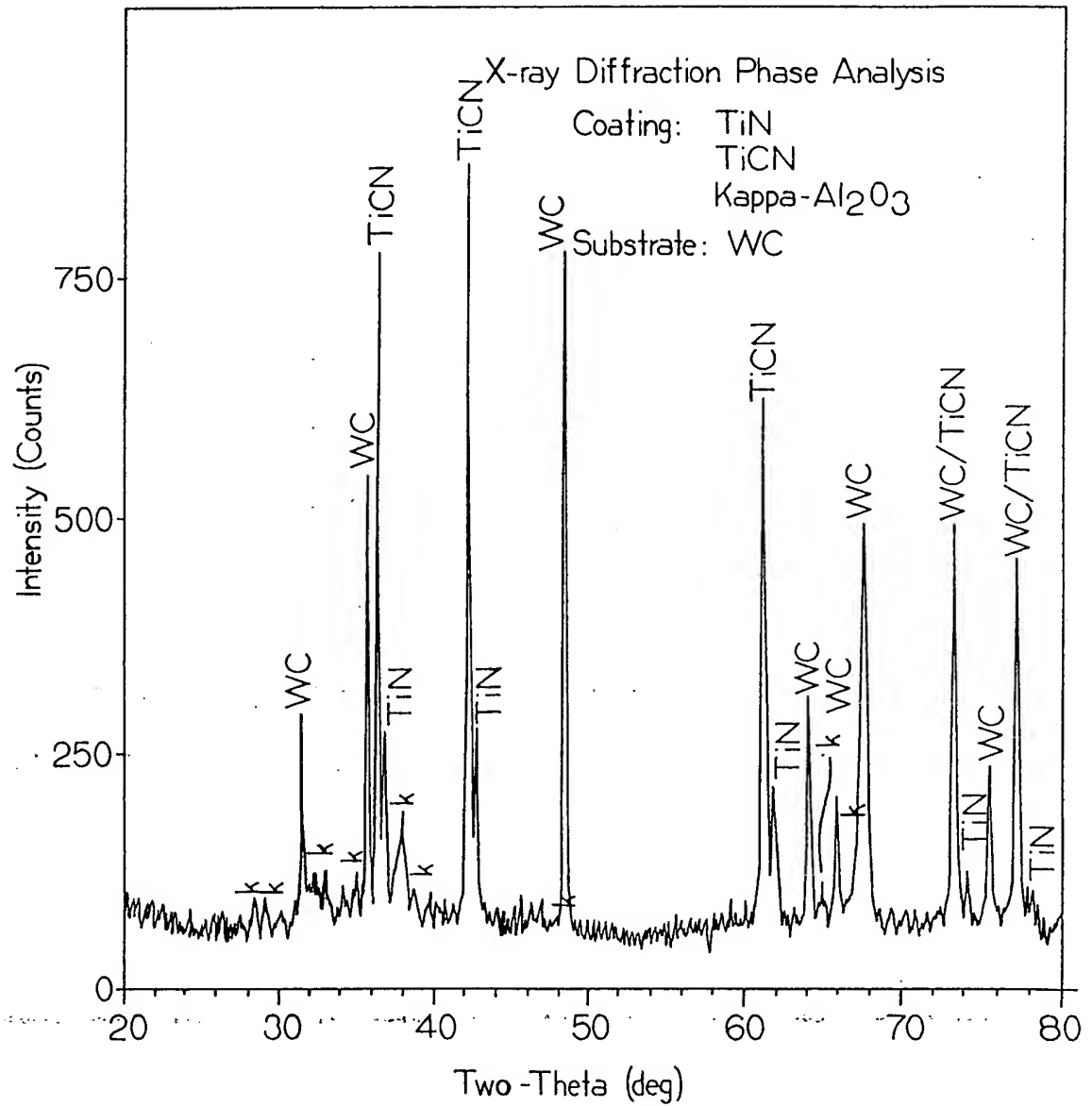


FIG. 14